First schedule

 $1-10 \mu g \ HBcAg \ / \ acemannan \ 3mg/mL \\ 2-10 \mu g \ HBcAg \ / \ PBS \ 1X \\ 3-10 \mu g \ HBcAg \ / \ alum \ 0.5mg/mL \\ SC$

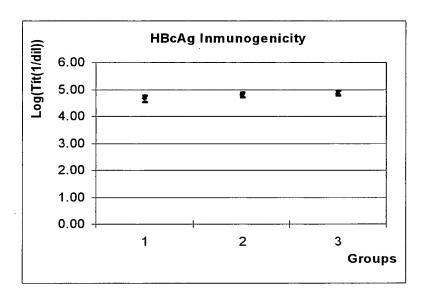


Fig. 1

Second Schedule

1-10μg HBsAg/ PBS 1X	IN
2-10μg HBsAg/ acemannan 3mg/mL	IN
3-10μg HBsAg/ 10μg HBcAg / PBS 1X	IN
4-10μg HBsAg/ Alum 0.5mg/mL	SC

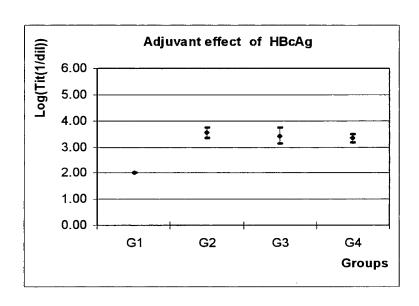


Fig. 2

Third schedul

1-	5μg HBsAg / PBS 1X	IN
2-	5μg HBsAg / 5μg HBcAg	IN
3-	5μg HBsAg / 10μg HBcAg	IN
4-	5μg HBsAg / 20μg HBcAg	IN
5-	5μg HBsAg / acemannan 3mg/mL	IN
6-	5μg HBsAg / alum 0.5mg/mL	IM

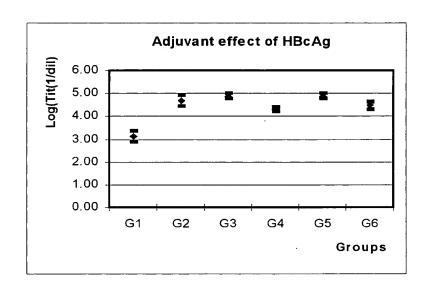
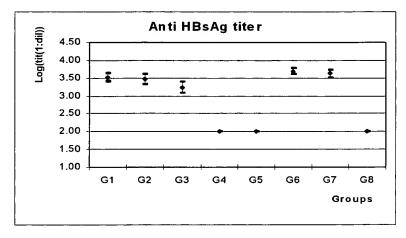
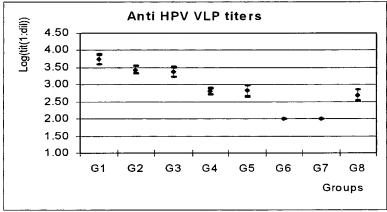


Fig. 3

Fourth Schedule: Synergism at mucosal lev 1.

Acemannan 3mg/mL	X			X		Х		
HBcAg 5µg/dose		X			Х		X	
HBsAg 5µg/dose	X	X	Х			Х	X	
VLP /HPV 5µg/dose	X	X	X	X	X			X





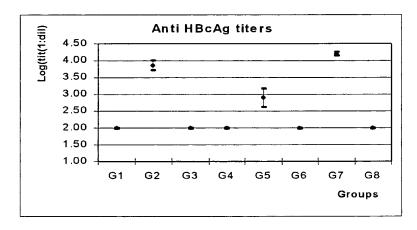


Fig. 4 Composition, per groups, in the upper part of the figure.

Fifth Schedule

1-10μg HCV NC/ PBS 1X	IN
2-5μg HBsAg/ PBS 1X	IN
3-10μg HBsAg/ 10μg HCV NC / PBS 1X	IN

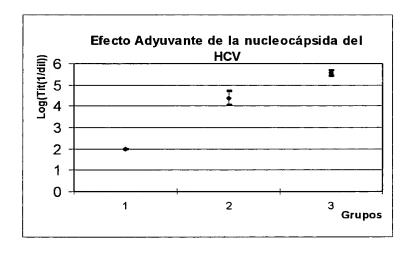


Fig. 5